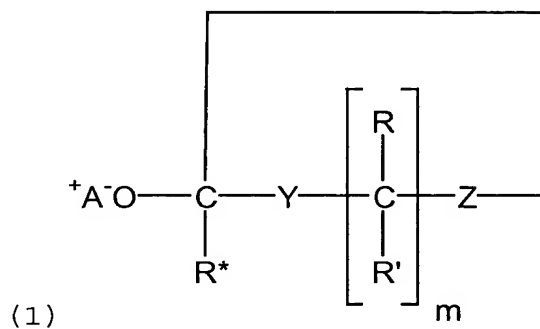
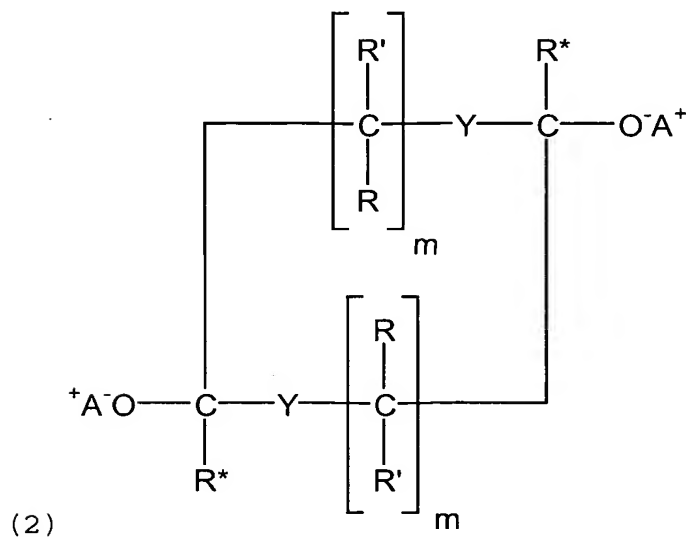


WHAT IS CLAIMED IS:

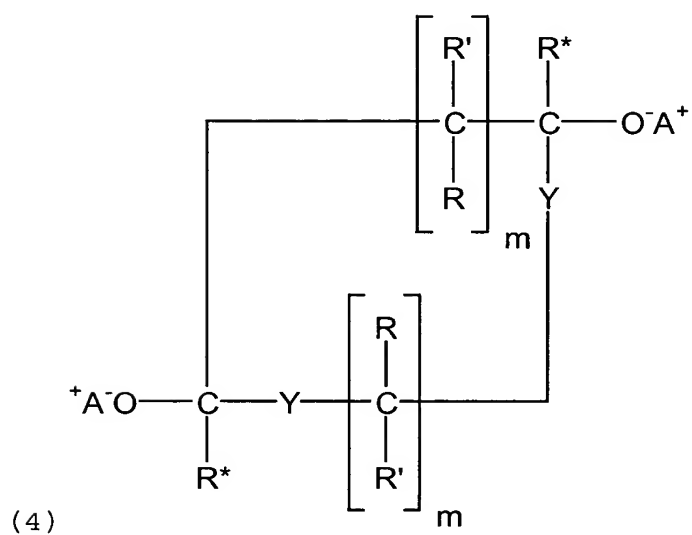
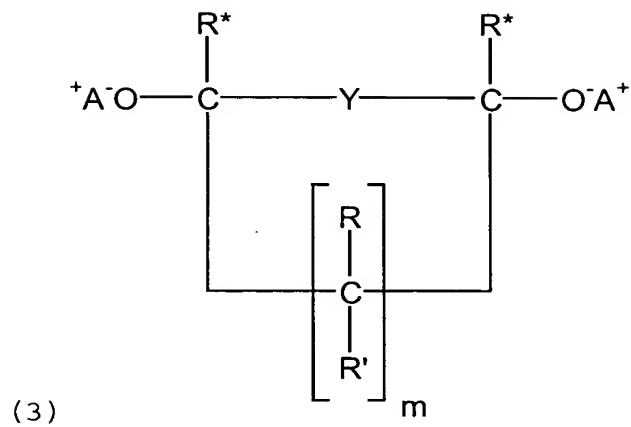
1. A process for synthesizing a modified silane compound which comprises reacting (I) the salt of a cyclic organic compound having a structural formula selected from the group consisting of:



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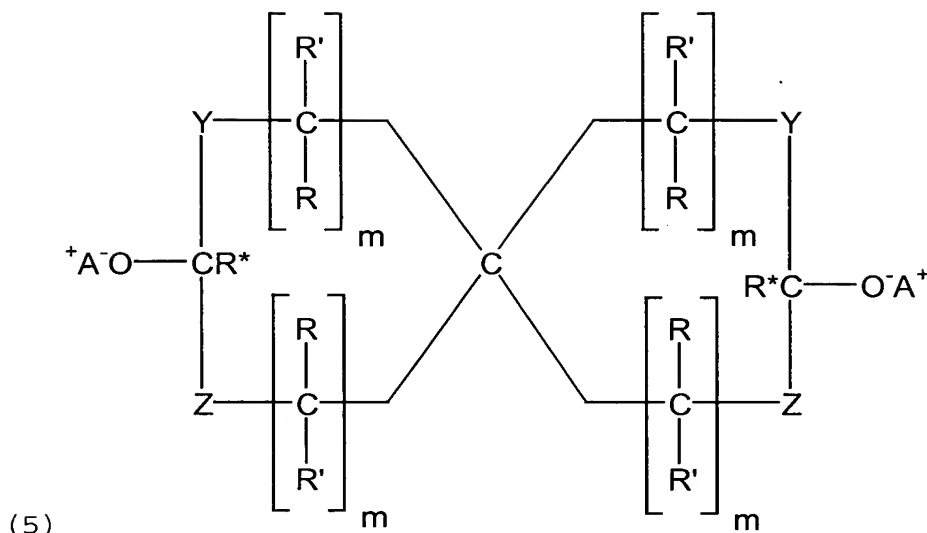


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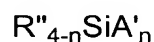
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and



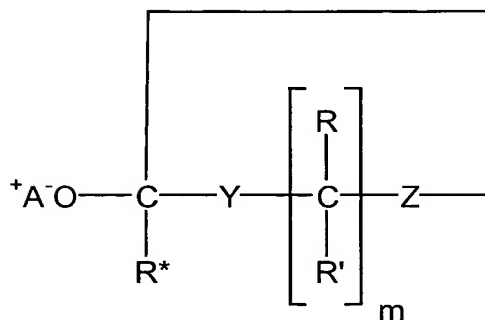
wherein A represents an alkali metal atom selected from the group consisting of lithium, sodium, and potassium; wherein  
5 m represents an integer from 1 to about 20; wherein R and R' can be the same or different and are selected from the group consisting of hydrogen atoms, alkyl groups containing from 1 to about 12 carbon atoms, aryl groups containing from about 6 to about 18 carbon atoms, alkaryl groups  
10 containing from 7 to about 18 carbon atoms, and alkoxy groups containing from 1 to about 18 carbon atoms; wherein R\* is selected from the group consisting of hydrogen atoms, alkyl groups containing from 1 to about 12 carbon atoms, aryl groups containing from about 6 to about 18 carbon  
15 atoms, and alkaryl groups containing from 7 to about 18 carbon atoms; wherein R, R', and R\* can be bonded together in any combination in cases where R, R', and R\* are not hydrogen atoms; wherein Y represents a moiety selected from the group consisting of oxygen, sulfur, nitrogen, and  
20 phosphorus; wherein Z represents a moiety selected from the group consisting of C(R)R', oxygen, sulfur, nitrogen, and phosphorus; wherein the contiguous cyclic ring in formulas (1), (2), (3), (4), and (5) can contain heteroatoms

selected from the group consisting of oxygen, sulfur, nitrogen, phosphorus, and silicon in cases where m represents an integer greater than 1; wherein the contiguous cyclic ring in formulas (1), (2), (3), (4), and  
5 (5) can be saturated or unsaturated in cases where m represents an integer greater than 1; wherein said alkyl groups, aryl groups, alkaryl groups, and alkoxy groups can contain heteroatoms selected from the group consisting of oxygen, sulfur, nitrogen, phosphorus, and silicon; with  
10 (II) a silicon containing compound of the structural formula:

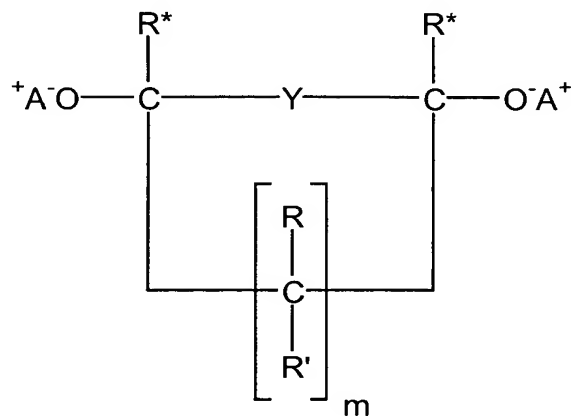


15 wherein n represents an integer from 1 to 4; wherein R'' is selected from the group consisting of hydrogen atoms, alkyl groups containing from 1 to about 12 carbon atoms, aryl groups containing from about 6 to about 18 carbon atoms, alkaryl groups containing from 7 to about 18 carbon atoms,  
20 alkoxy groups containing from 1 to about 18 carbon atoms; wherein said alkyl groups, aryl groups, alkaryl groups, and alkoxy groups can contain heteroatoms selected from the group consisting of oxygen, sulfur, nitrogen, phosphorus, and silicon; wherein A' represents a halide atom selected  
25 from the group consisting of fluorine, chlorine, bromine, and iodine; wherein said process is conducted at a temperature which is within the range of about -100°C to about 50°C.

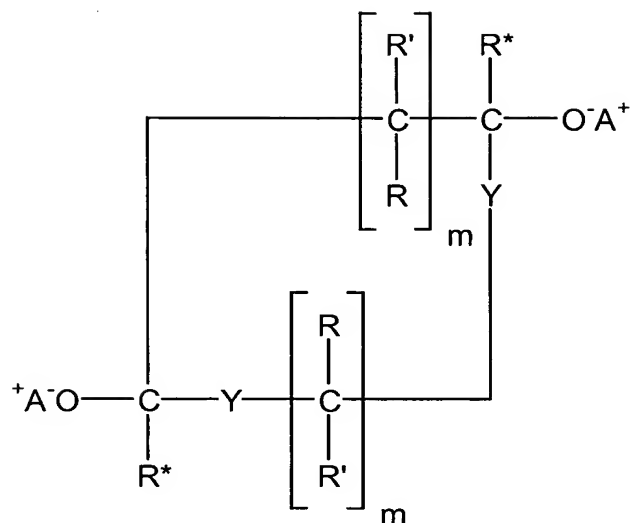
30 2. A process for synthesizing a modified silane compound as specified in claim 1 wherein the cyclic organic compound is of the structural formula:



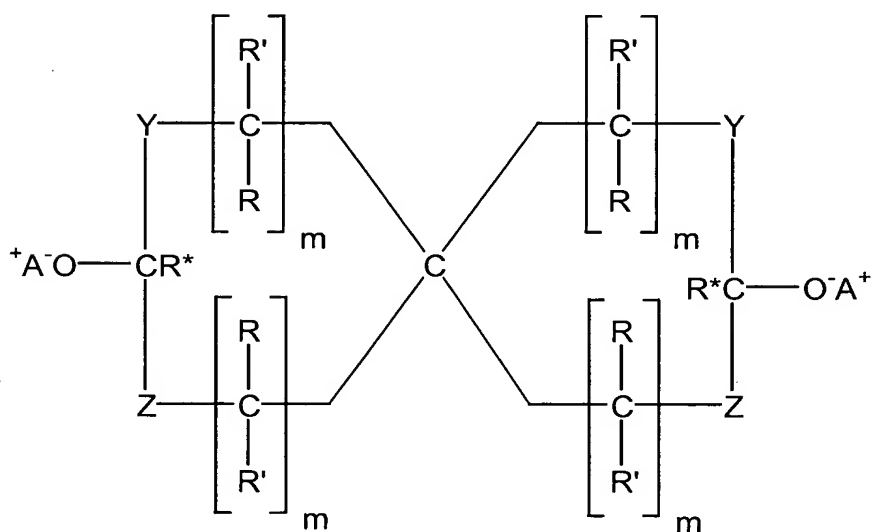
3. A process for synthesizing a modified silane  
 5 compound as specified in claim 1 wherein the cyclic organic  
 compound is of the structural formula:



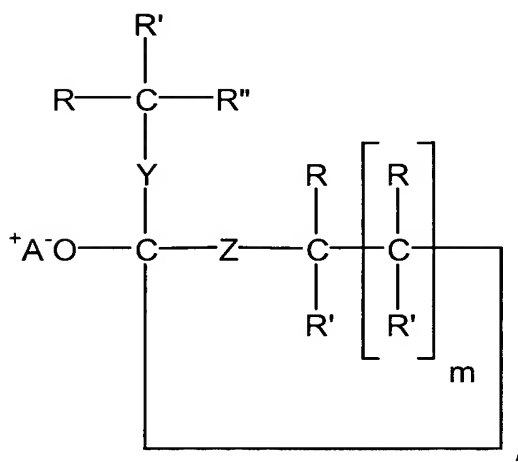
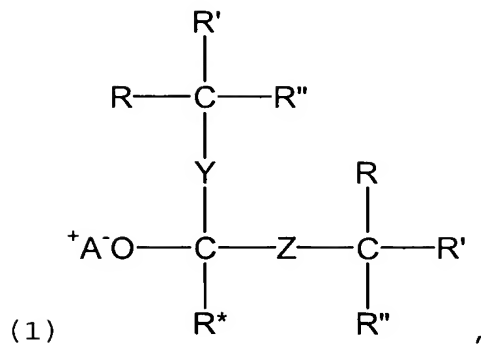
- 10 4. A process for synthesizing a modified silane  
 compound as specified in claim 1 wherein the cyclic organic  
 compound is of the structural formula:



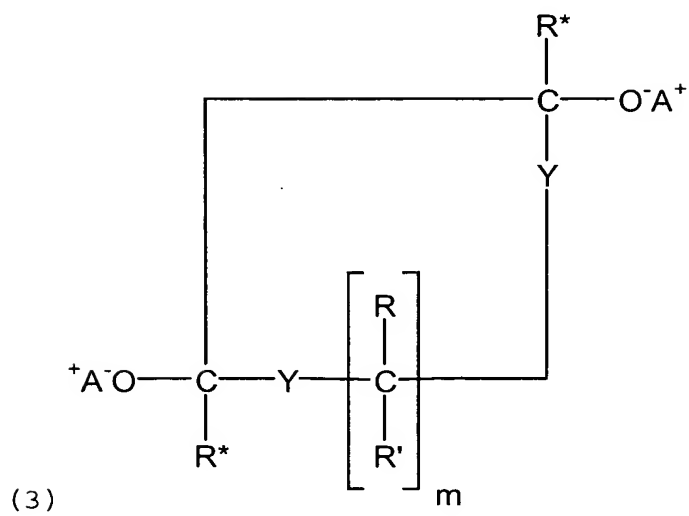
5. A process for synthesizing a modified silane compound as specified in claim 1 wherein the cyclic organic compound is of the structural formula:



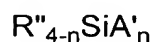
- 10 6. A process for synthesizing a modified silane compound which comprises reacting (I) the salt of an organic compound having a structural formula selected from the group consisting of:



and

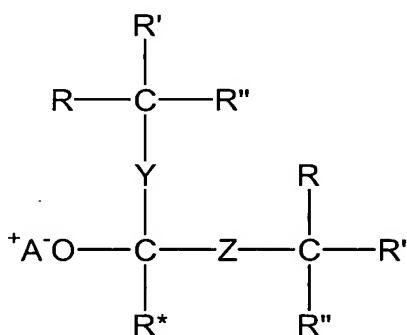


wherein A represents an alkali metal atom selected from the group consisting of lithium, sodium, and potassium; wherein m represents an integer from 1 to about 20; wherein R and R' can be the same or different and are selected from the group consisting of hydrogen atoms, alkyl groups containing from 1 to about 12 carbon atoms, aryl groups containing from about 6 to about 18 carbon atoms, alkaryl groups containing from 7 to about 18 carbon atoms, and alkoxy groups containing from 1 to about 18 carbon atoms; wherein R\* is selected from the group consisting of hydrogen atoms, alkyl groups containing from 1 to about 12 carbon atoms, aryl groups containing from about 6 to about 18 carbon atoms, and alkaryl groups containing from 7 to about 18 carbon atoms; wherein R, R', and R\* can be bonded together in any combination in cases where R, R', and R\* are not hydrogen atoms; wherein Y represents a moiety selected from the group consisting of oxygen, sulfur, nitrogen, and phosphorus; wherein Z represents a moiety selected from the group consisting of C(R)R', oxygen, sulfur, nitrogen, and phosphorus; wherein the contiguous cyclic ring in formulas (1), (2), and (3) can contain heteroatoms selected from the group consisting of oxygen, sulfur, nitrogen, phosphorus, and silicon in cases where m represents an integer greater than 1; wherein the contiguous cyclic ring in formulas (1), (2), and (3) can be saturated or unsaturated in cases where m represents an integer greater than 1; wherein said alkyl groups, aryl groups, alkaryl groups, and alkoxy groups can contain heteroatoms selected from the group consisting of oxygen, sulfur, nitrogen, phosphorus, and silicon; with (II) a silicon containing compound of the structural formula:

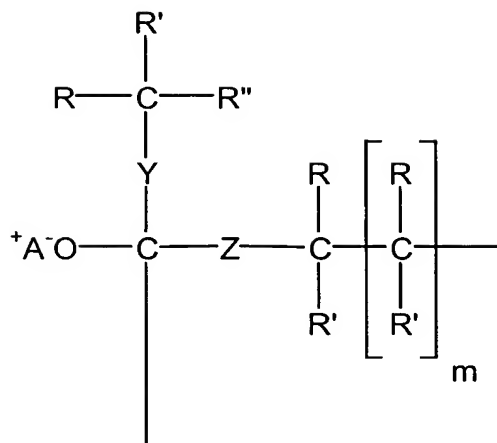


wherein n represents an integer from 1 to 4; wherein R" is selected from the group consisting of hydrogen atoms, alkyl groups containing from 1 to about 12 carbon atoms, aryl groups containing from about 6 to about 18 carbon atoms, alkaryl groups containing from 7 to about 18 carbon atoms, alkoxy groups containing from 1 to about 18 carbon atoms; wherein said alkyl groups, aryl groups, alkaryl groups, and alkoxy groups can contain heteroatoms selected from the group consisting of oxygen, sulfur, nitrogen, phosphorus, and silicon; wherein A' represents a halide atom selected from the group consisting of fluorine, chlorine, bromine, and iodine; wherein said process is conducted at a temperature which is within the range of about -100°C to about 50°C.

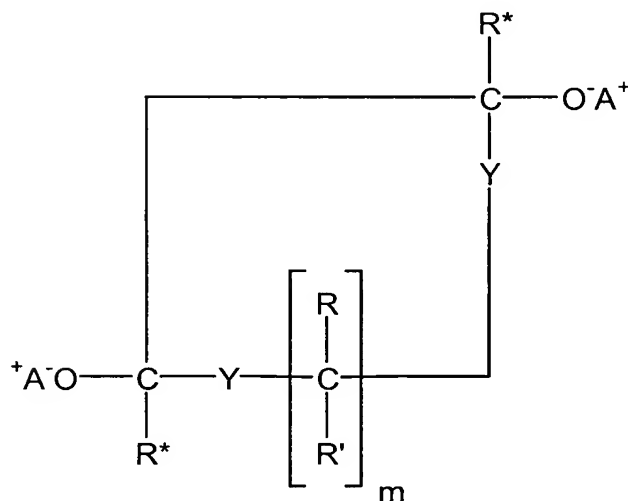
7. A process for synthesizing a modified silane compound as specified in claim 6 wherein the organic compound is of the structural formula:



8. A process for synthesizing a modified silane compound as specified in claim 6 wherein the organic compound is of the structural formula:

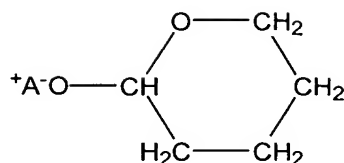


9. A process for synthesizing a modified silane compound as specified in claim 6 wherein the organic  
5 compound is of the structural formula:



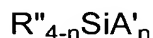
10. A process for synthesizing a modified silane compound as specified in claim 6 wherein Y represents oxygen and wherein Z represents oxygen.

11. A process for synthesizing a modified silane compound which comprises reacting (I) the salt of a cyclic  
15 hemiacetal of the structural formula:



wherein A represents an alkali metal atom selected from the group consisting of lithium, sodium, and potassium; with

5 (II) a silicon containing compound having a structural formula selected from the group consisting of :



and

10



wherein n represents an integer; wherein R'' represents an alkyl group containing from 1 to about 10 carbon atoms; wherein A' represents a halide atom selected from the group  
 15 consisting of fluorine, chlorine, bromine, and iodine; wherein said process is conducted at a temperature which is within the range of about -100°C to about 50°C.

20

12. A process for synthesizing a modified silane compound which comprises reacting the sodium salt tetrahydropyran-2-ol; with silicon tetrachloride; wherein said process is conducted at a temperature which is within the range of about -100°C to about 50°C.

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13. A process as specified in claim 1 wherein R, R', and R\* are selected from the group consisting of hydrogen atoms and alkyl groups containing from 1 to about 4 carbon atoms.

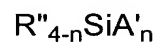
30

14. A process as specified in claim 1 wherein R, R', and R\* represent hydrogen atoms.

15 15. A process as specified in claim 1 wherein Y represents oxygen.

16. A process as specified in claim 1 and wherein Z represents oxygen.

10 17. A process as specified in claim 12 wherein the silicon-containing compound is of the structural formula:



15 and wherein n represents an integer from 1 to 4.

18. A process as specified in claim 1 wherein Z represents C(R)R'.

20 19. A process as specified in claim 1 wherein A' represents chlorine.

20. A process as specified in claim 12 wherein the silicon containing compound is of the structural formula:  
25



and wherein n represents an integer from 1 to 3.